

# Comparisons of Job Characteristics

**Focus Occupation:** [Electro-Mechanical Technicians \(17-3024\)](#)

**Associated Occupation:** [Electronic Equipment Installers and Repairers, Motor Vehicles \(49-2096\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 84

**Focus Occupation:** Electro-Mechanical Technicians (17-3024)

**Associated Occupation:** Electronic Equipment Installers and Repairers, Motor Vehicles (49-2096)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	17.8	15.6	<	Expanded education and/or training may be required
Design	5.2	13.5	7.8	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	13.3	16.1	>	Current knowledge level is likely sufficient
Engineering and Technology	5.7	12.3	14.2	>	Current knowledge level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 79

**Focus Occupation:** Electro-Mechanical Technicians (17-3024)

**Associated Occupation:** Electronic Equipment Installers and Repairers, Motor Vehicles (49-2096)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Repairing	3.4	11.9	12.3	0	Current skill level may be sufficient
Troubleshooting	4.5	11.1	12.8	>	Skill level is likely sufficient
Equipment Maintenance	3.5	10.7	10.8	0	Current skill level may be sufficient
Installation	1.7	9.7	10.2	0	Current skill level may be sufficient
Equipment Selection	3.3	8.4	9.2	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 80

**Focus Occupation: Electro-Mechanical Technicians (17-3024)**

**Associated Occupation: Electronic Equipment Installers and Repairers, Motor Vehicles (49-2096)**

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Arm-Hand Steadiness	6.8	12.6	12.0	0	Current ability level may be sufficient
Visual Color Discrimination	6.4	12.1	10.6	<	Some improvement in abilities may be required
Finger Dexterity	7.6	12.0	12.5	0	Current ability level may be sufficient
Extent Flexibility	4.8	11.6	1.5	<<	Extensive improvement in abilities may be required
Visualization	7.5	10.8	10.8	0	Current ability level may be sufficient
Control Precision	6.6	10.7	12.1	>	Current ability level is likely sufficient
Selective Attention	8.7	10.6	11.4	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 83

**Focus Occupation: Electro-Mechanical Technicians (17-3024)**

**Associated Occupation: Electronic Equipment Installers and Repairers, Motor Vehicles (49-2096)**

Work Activities	Exclusivity of Activity
Communicate technical information	4
Fabricate, assemble, or disassemble manufactured products by hand	11
Install electronic equipment, components, or systems	62
Install/connect electrical equipment to power circuit	57
Read blueprints	10
Read technical drawings	7
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Solder electrical or electronic connections or components	55
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use electrical or electronic test devices or equipment	40
Use hand or power tools	2
Use oscilloscopes in electronics repair	77

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 71

**Focus Occupation: Electro-Mechanical Technicians (17-3024)**

**Associated Occupation: Electronic Equipment Installers and Repairers, Motor Vehicles (49-2096)**

Tools and Technologies	Exclusivity
Computers	1
Cutting and crimping and punching tools	3
Data management and query software	1
Electrical measuring and testing equipment	7
Forming tools	2
Holding and clamping tools	3
Industry specific software	1
Machine tools	7
Power tools	2
Soldering and brazing and welding machinery and supplies	6
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.